

# KUKA机器人培修教材

- 1.KCP讲解
- 2.菜单介绍
- 3.程序存储与拷贝
- 4.零点校正
- 5.坐标系讲解
- 6.TCP建立
- 7.程序编程
- 8.SPS编程

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Organization



1\* KUKA CRP



KUKA  
presentation



KUKA  
products



Course aim  
and contents



GP - KR C2 - V4.1



Safety

# KUKA机器人基本操作



通过接通在控制柜上的主开关后，计算机部分开始起动（装入）操作系统及控制软件。这个装入过程持续数分钟并在 VKCP 的显示屏上以条形的形式显示。

## 控制器开机



接着显示屏显示用于建立、选择和执行程序的资源管理器：

The screenshot displays a control panel interface with a menu bar at the top containing: 文件 (File), 编辑 (Edit), 配置 (Configure), 显示 (Display), 投入运行 (Operate), 指令 (Commands), and 帮助 (Help). The main area is split into two panes. The left pane, titled '单过滤器 Anvender', shows a file tree with 'RCVS (KRCV)' selected and '(ARCHIVE)' below it. The right pane, titled '内容来自: (KRCV)', shows a table with columns '名字' (Name), '#', '已更改' (Last Modified), and '注释' (Comments). It contains one entry: 'R1' with a timestamp of '99-8-25 10:49:56'. Below the panes is a status bar with '1 对象 (一个或多个)'. A log window shows two entries: '10:541008 P\_15 控制器冷启动' (Controller cold start) and '10:570 B07 开机结束' (Power up complete). The bottom status bar shows 'NUM INS S I R', 'SStep (T2) W0 POV=100% Robby\_1 12:31', and a row of buttons: 新建 (New), 选定 (Select), 备份 (Backup), 存档 (Archive), and 删除 (Delete).

| 名字 | # | 已更改              | 注释 |
|----|---|------------------|----|
| R1 |   | 99-8-25 10:49:56 |    |

| 时         | 编    | 来源 | 提示     |
|-----------|------|----|--------|
| 10:541008 | P_15 |    | 控制器冷启动 |
| 10:570    | B07  |    | 开机结束   |

NUM INS S I R SStep (T2) W0 POV=100% Robby\_1 12:31

新建 选定 备份 存档 删除



File Edit Configure Monitor Setup Commands Technology Help

Filter: User

PCRCVS (KRC:\)  
R1  
(ARCHIVE\)

Contents of: R1

| Name    | Comment          | Changed           | # |
|---------|------------------|-------------------|---|
| Program |                  | 21.05.01 16:12:52 |   |
| cell    | HANDLER on ex... | 22.05.01 13:20:48 | 1 |

2 Object(s)

| Time  | no.  | Source | Message                    |
|-------|------|--------|----------------------------|
| 08:48 | 1008 |        | Controller booted          |
| 08:50 | 0    | TPUSER | Initialization in progress |
| 08:50 | 0    | TPUSER | Initialization finished    |
| 08:50 | 38   | BOF    | PowerOn finished           |

NUM CAPS S I R T1 POV=100% R\_Name 09:31

New Select Duplicate Archive Delete Edit

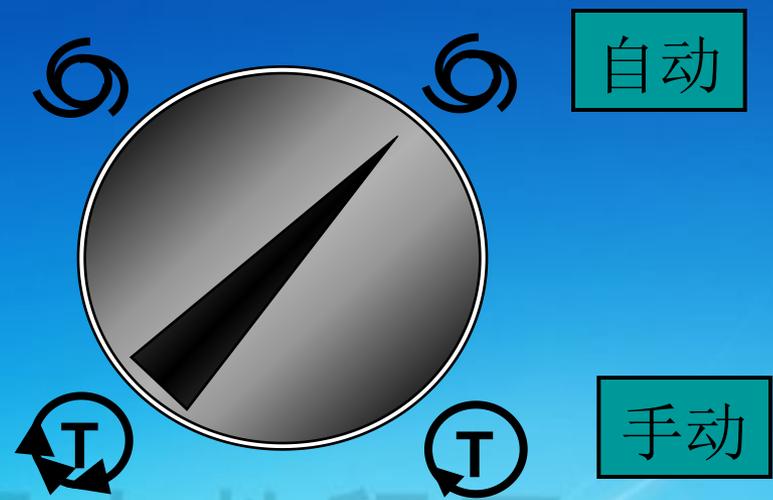


模式选择  
开关

驱动开

驱动关

急停



自动

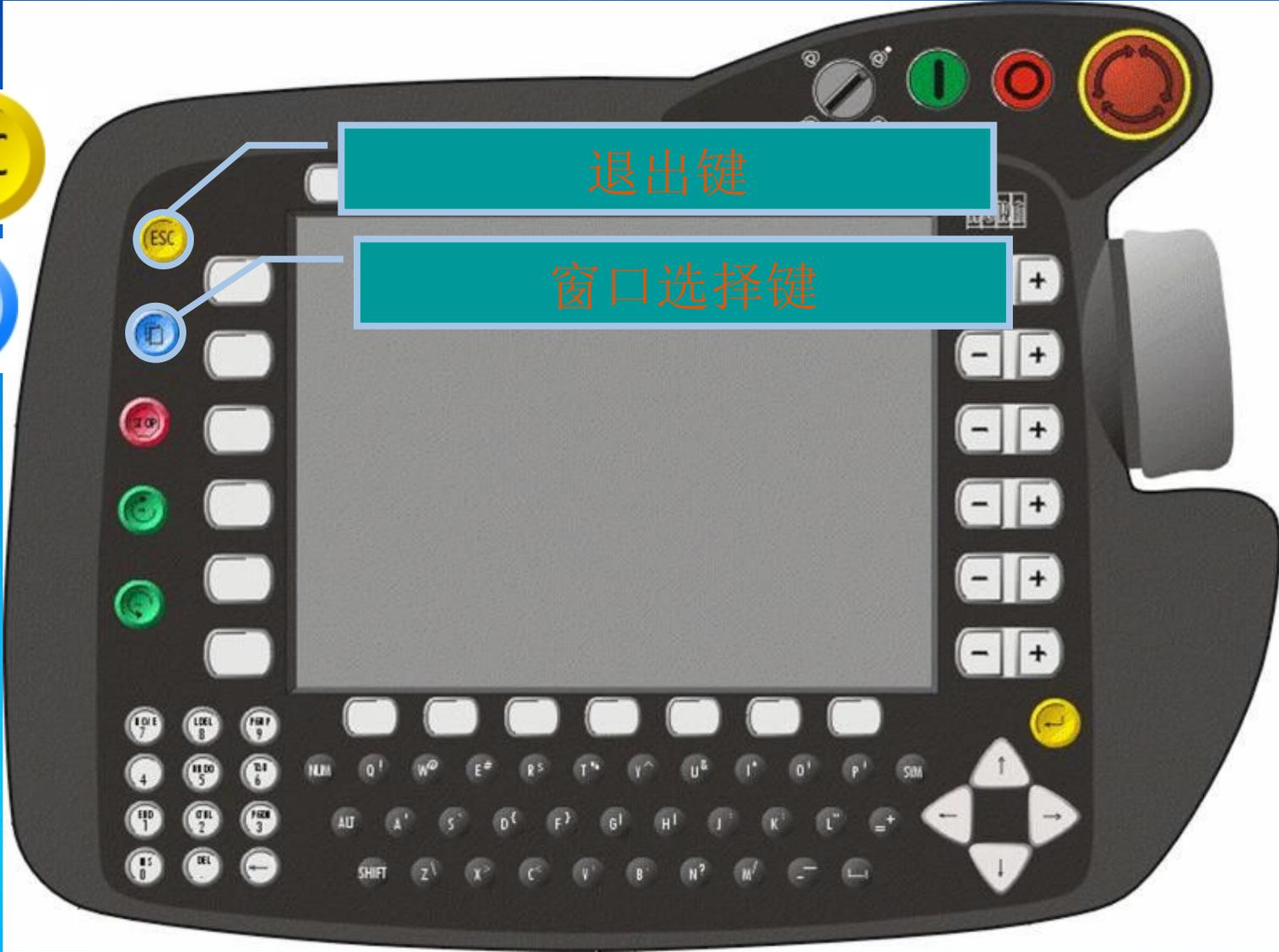
手动

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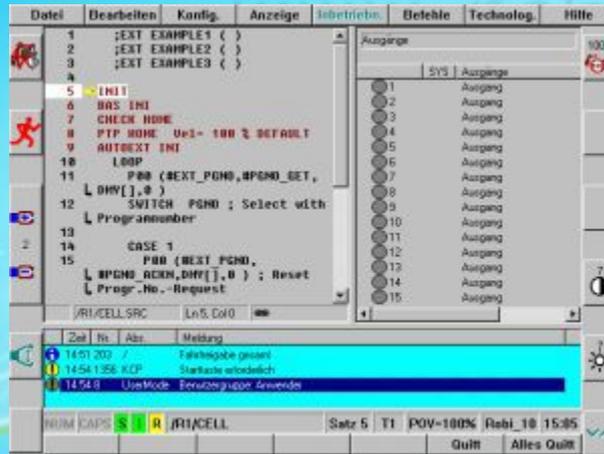
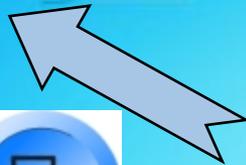
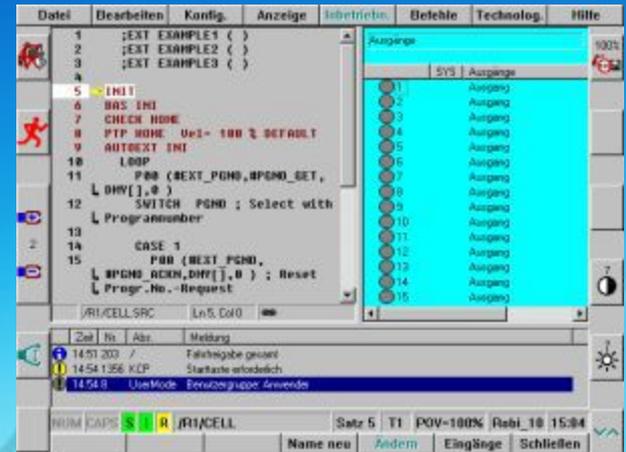
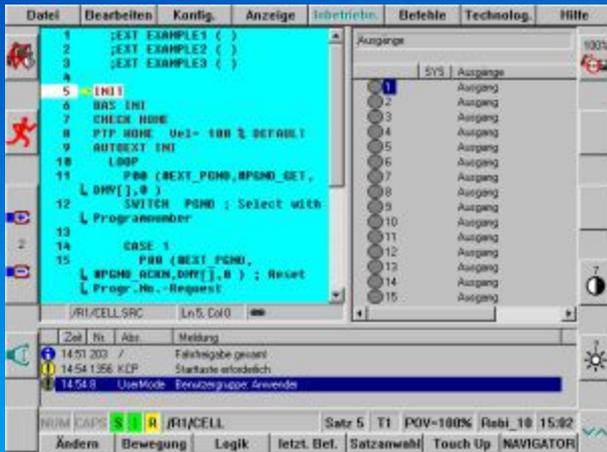
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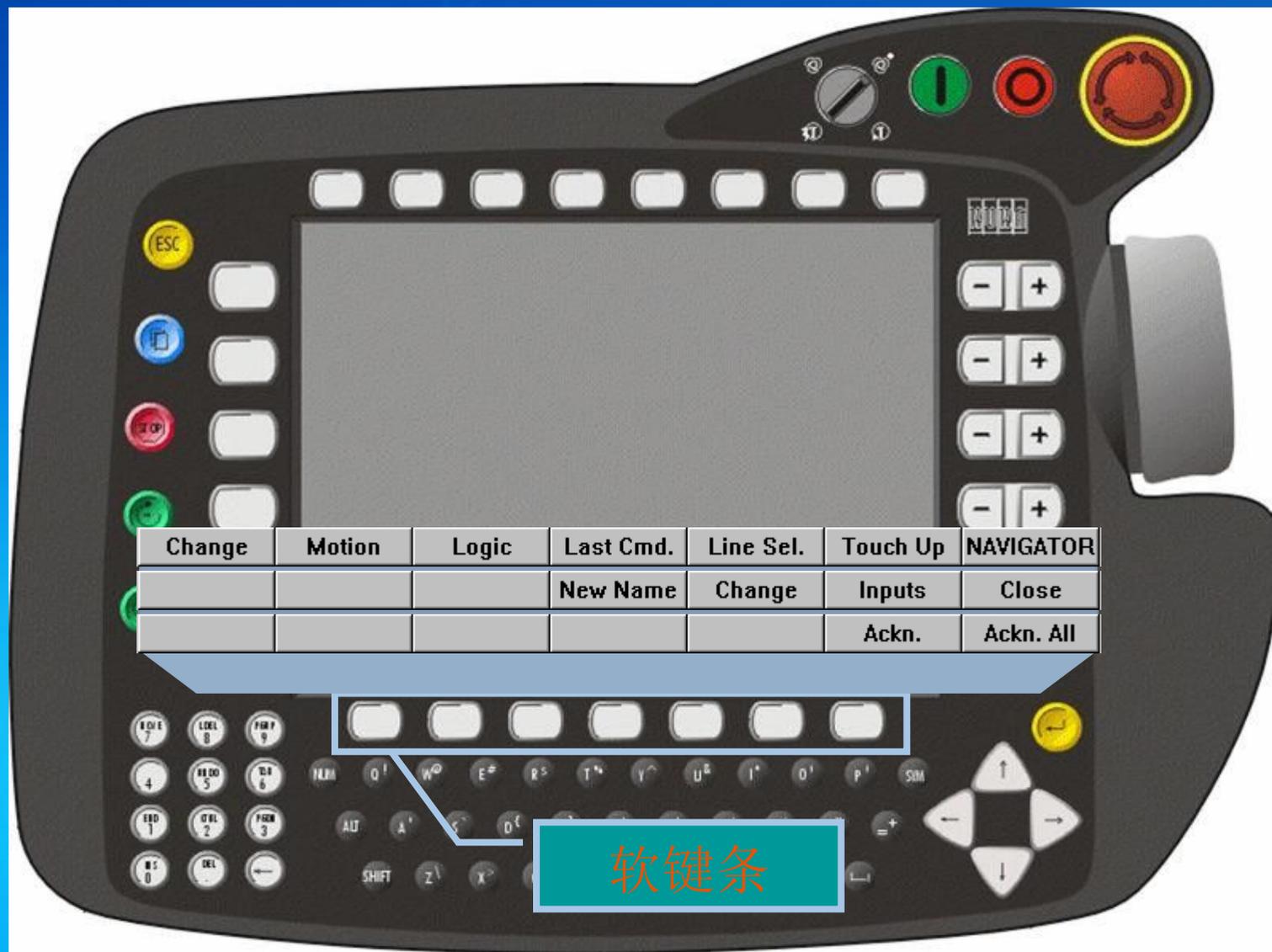
退出键

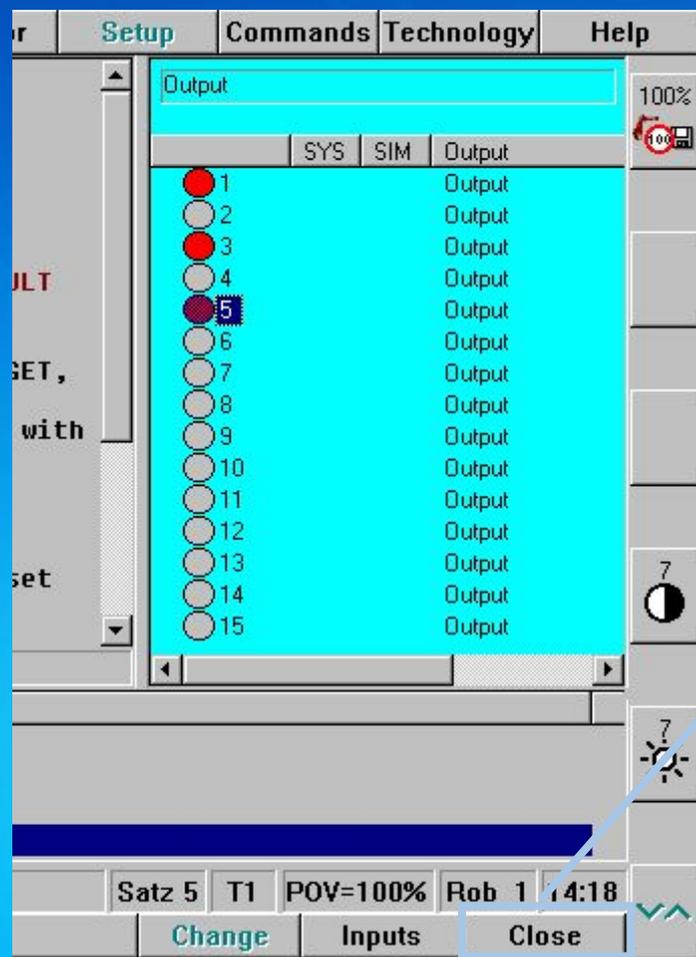
窗口选择键











关闭

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## 提示操作者信息

| Zeit    | Nr.   | Src.     | Message  |
|---------|-------|----------|--|
| 15:52:0 |       | TDRASIC  | Die aktuellen Koordinaten wurden in Punkt P1 übernommen. |
| !       | 13:04 | 1367 HPU | ACTIVE status required                                   |
| !       | 13:04 | 1367 HPU | ACTIVE status required                                   |
| i       | 13:05 | 209      | Passive stop HPU   |
| STOP    | 13:05 | 1370 HPU | Passive STOP   |

Quitt    Alles Quitt  
Ackn.    Ackn. All

确认



## 说明性提示

- 例如按下某个不允许的键后，给使用者一个说明



## 状态性提示

- 提示设备状态，该状态致使控制器发生反映（例如急停）



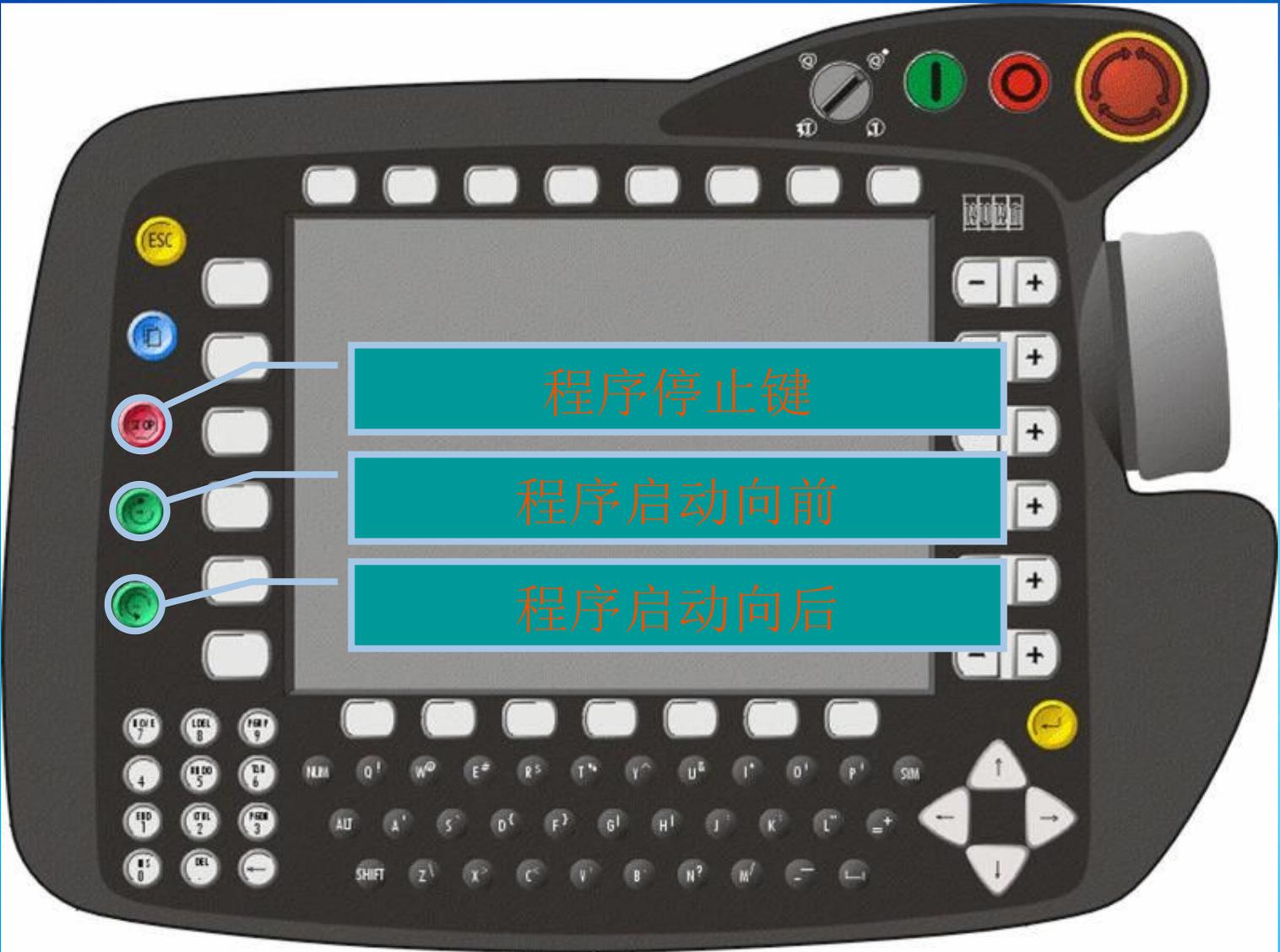
## 确认性提示

- 它标注某种必须被识别并确认的情况



## 对话 信息

- 要求使用者确认，“是”或者“否”



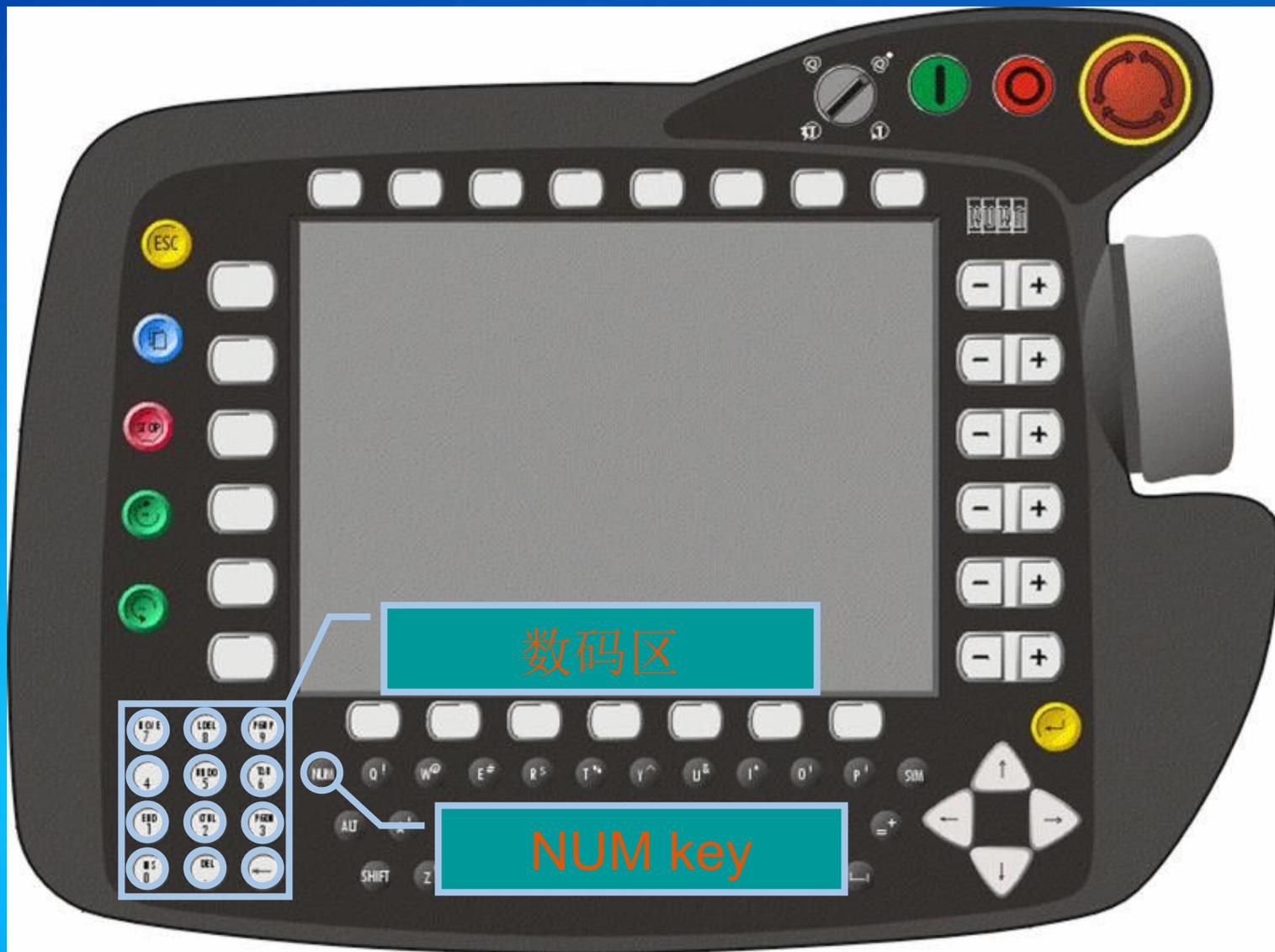
程序停止键



程序启动向前



程序启动向后



数码区

NUM key

## HOME

Jumps to the beginning of the line in which the edit cursor is positioned.

## UNDO

Cancels the last entry.

## END

Jumps to the end of the line in which the edit cursor is positioned.

## INS

Switches between insert and overwrite modes.

## LDEL

Deletes the line in which the edit cursor is positioned.

## PGUP

Moves one screen towards the beginning of the file.

## TAB

Tab jump

## PGDN

Moves one screen towards the end of the file.

## CTRL

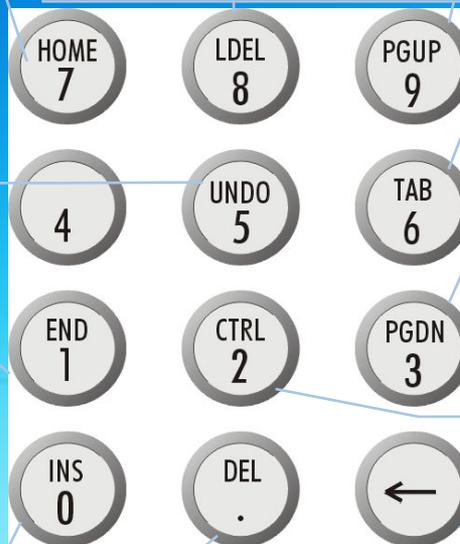
Control key

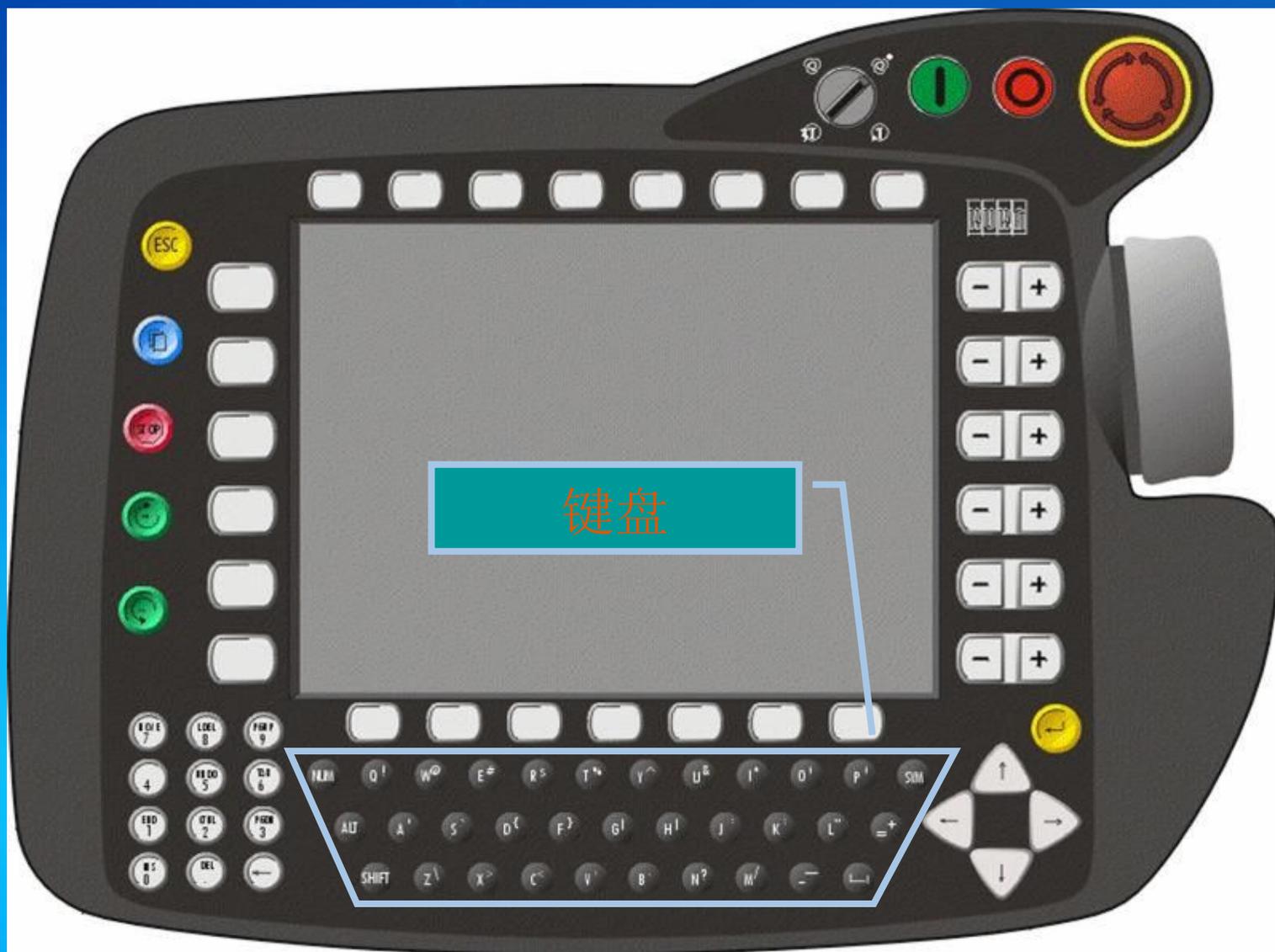
## Arrow

Backspace key; deletes the character to the left of the edit cursor.

## DEL

Deletes the character to the right of the edit cursor.

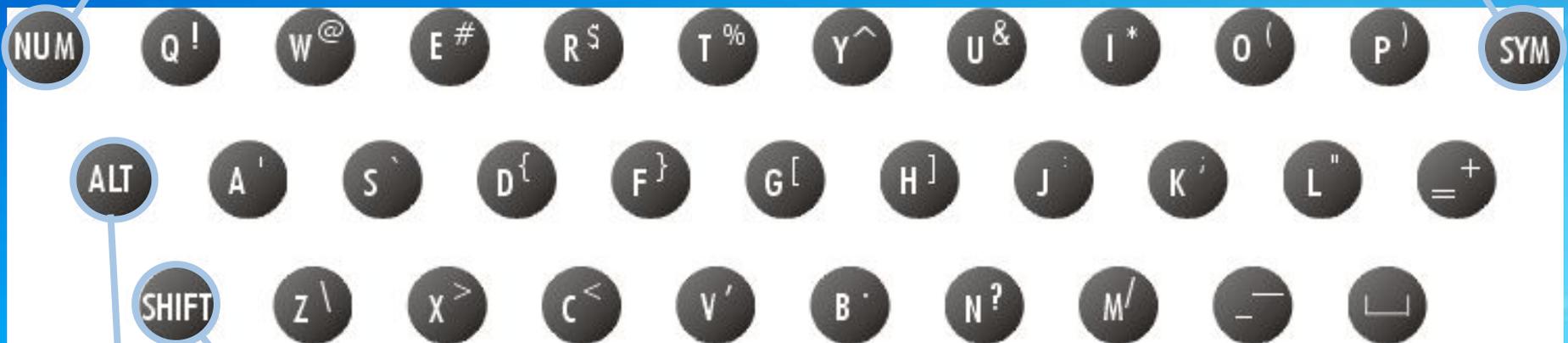




键盘

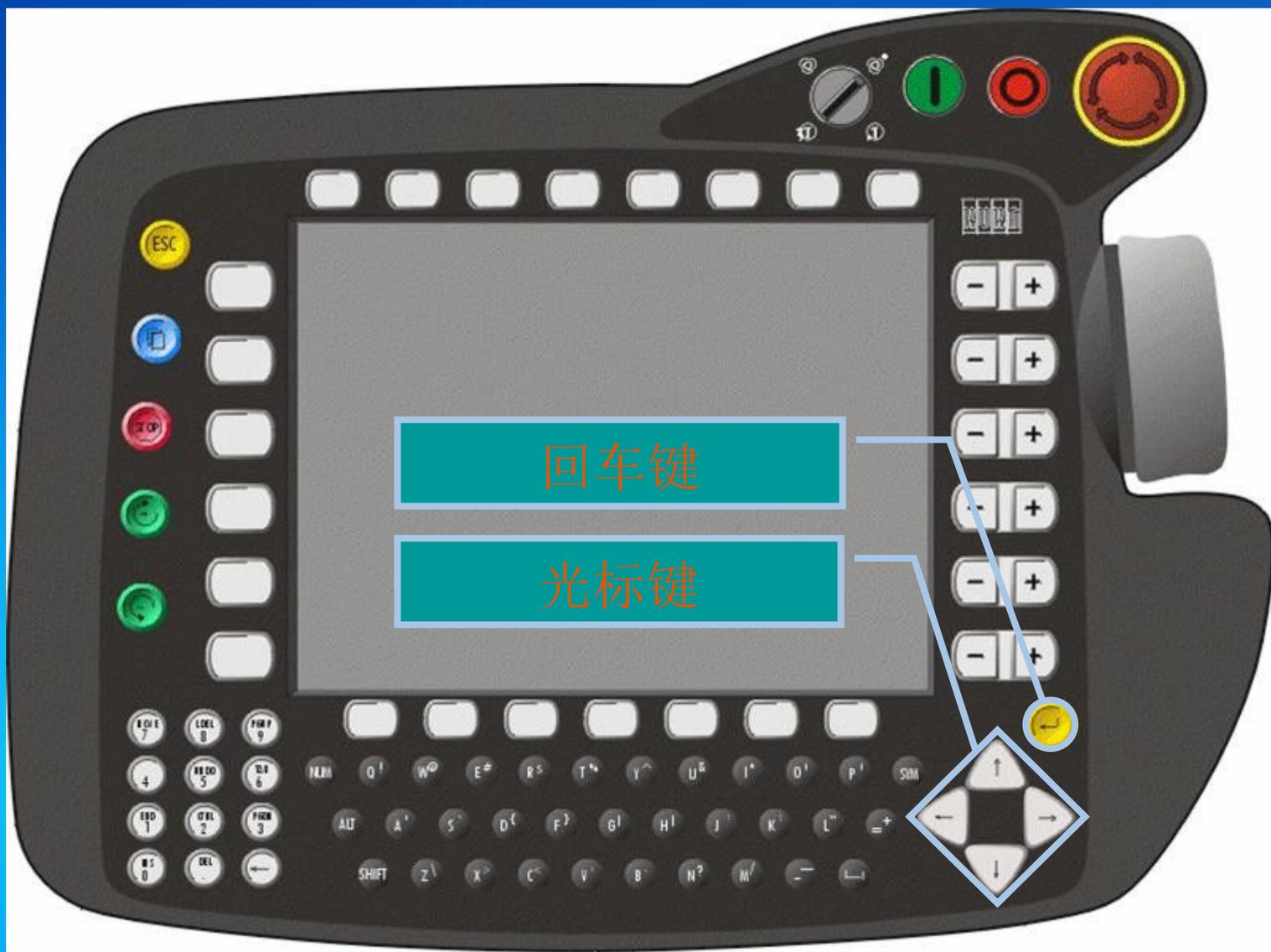
NUM key

SYM key



SHIFT key

ALT key



回车键

光标键

菜单条



- 0 I/O ▶
- 1 Rob. Position ▶
- 2 Variable ▶
- 3 Diagnosis ▶
- 4 Windows ▶
- 5 Icon Edit

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|   |  |
|---|--|
|   |  |
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NUM CAPS S | R PROG\_02 Line 1 T1 HOV=10% Rob\_1 12:42 PM

可以输入数字

时间

机器人名称

选择的程序

当前程序行

手动进程速度

T1模式

|     |      |   |  |   |         |        |    |         |       |          |
|-----|------|---|--|---|---------|--------|----|---------|-------|----------|
| NUM | CAPS | S |  | R | PROG_02 | Line 1 | T1 | HOV=10% | Rob_1 | 12:42 PM |
|-----|------|---|--|---|---------|--------|----|---------|-------|----------|



各驱动装置未准备就绪



各驱动装置准备就绪



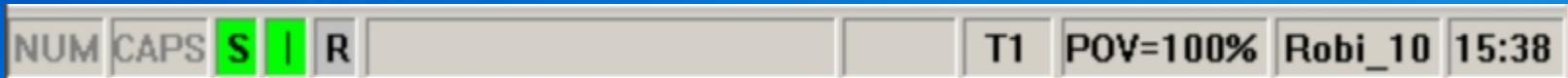
解释程序取消



解释程序停止



解释程序运行



-  → 灰色： 没有选定工作程序。
-  → 黄色： 句子指针位于选定工作程序第一行。
-  → 绿色： 工作程序正在运行。
-  → 红色： 选定并启动了的工作程序停下。
-  → 黑色： 句子指针位于选定工作程序最后一行。

## VKCP 的背面

